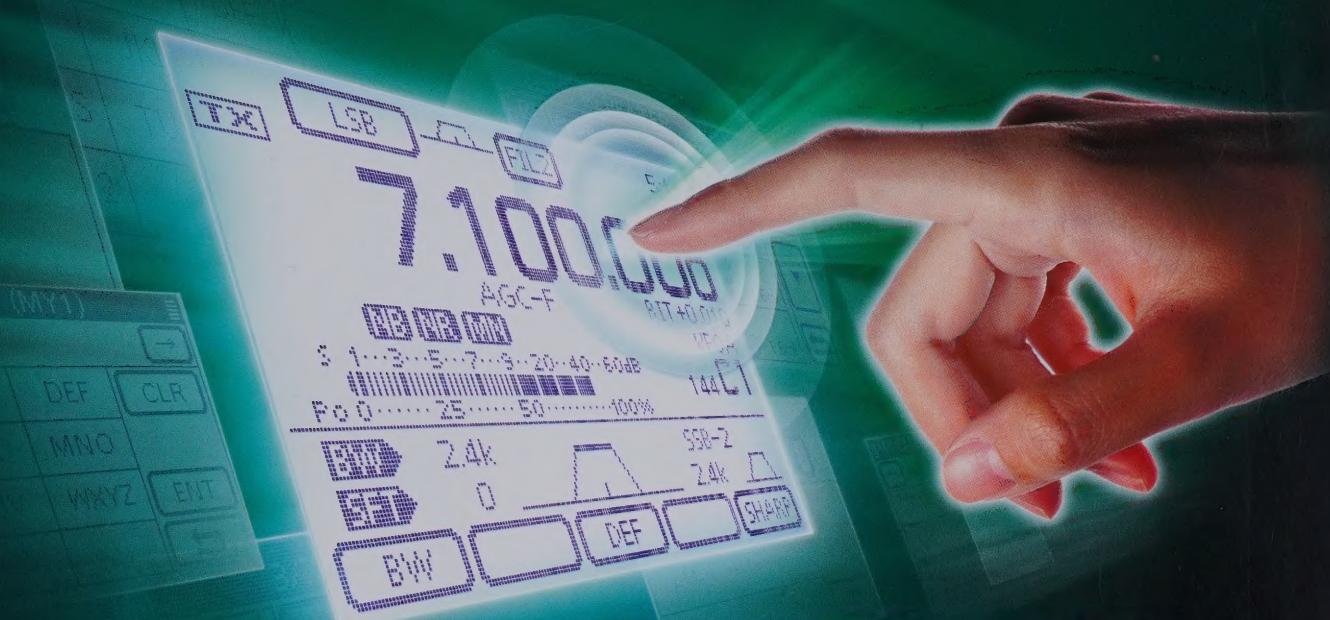


ICOM

HF/VHF/UHF ALL MODE TRANSCEIVER

IC-7100

Intuitive Touch Screen,
Quick Response,
Multi-band Radio



HF/50/144/440MHz
Controls at Your Fingertips
with an Angled Display



D-STAR

Intuitive Touch Screen, Quick Response, Multi-band Radio

Fingertip Controls

Intuitive Touch Screen Interface

The innovative touch screen interface provides quick and smooth operation for setting and editing various functions and memories.



One Touch Selection

For example, if you want to change the operating band, tap the frequency on the display. The band keys will be shown to select the operating band. Touching the multi-function meter indicator for 1 second will quickly change the transmit meter functions.



Straight Forward Operation

Just tap the mode, filter, function etc, you need to change. The touch screen responds naturally, changing your settings.



Software Keypad

Entering frequency, callsign or editing memory channels has never been this easy. The software keypad on the touch screen allows you to input alphanumeric characters incredibly quickly.



Angled Display

Touch Screen Control Portal

The radio control head features a large, multi-function, "touch screen" dot-matrix LCD display that is positioned for easy view and operation. The controller is compact in size, making it ideal for limited vehicle or desktop space.

Resistive Touch Screen

The 48.6×75.9 mm; 1.91×2.99 in large resistive touch screen display can be operated while wearing gloves.



Controller Mounted Speaker and Jacks

The unique remote head design is perfect for providing loud, clear audio as well as jacks for an external speaker/headphones as well as a key and microphone.

Controller Rear Panel View





HF/50/144/430/440MHz Multi-band, Multi-mode

The IC-7100 fully covers the HF, 50, 144, 430/440 MHz amateur bands in multiple modes, providing 100W on HF/50MHz bands, 50W on 144MHz band and 35W on 430/440MHz band.

Digital Features Controlled by the IF DSP

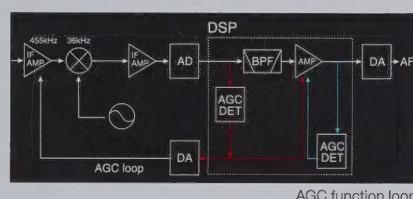
A high-performance 32-bit floating point IF DSP delivers rich digital signal processing features, including digital IF filter, digital twin PBT, noise reduction, CW auto tune, etc. Those digital features work on all bands from HF to V/UHF bands.



32-bit floating point IF DSP

DSP Controlled AGC Function Loop

The digital signal processing is incorporated into the AGC function loop. The results of signal processing provide feedback to the AGC function. The AGC function works on the intended signal and produces a constant audio output. The AGC time constants are flexibly adjustable from slow, middle, fast (or AGC off) for each operating mode.



D-STAR DV Mode (Digital Voice + Data)

The IC-7100 provides D-STAR DV mode digital voice and low speed data communication.

DR (D-STAR Repeater) Mode Operation

The DR mode operation makes the D-STAR operation simple and straight forward, even if you are new to D-STAR operation.



Near repeater function

SD Memory Card Slot for Saving Data

When used with an SD card, the SD card can store various contents including voice memory, memory channels, D-STAR repeater memories and other personal settings can be saved to the SD card and can be loaded to the transceiver.



SD memory card slot

HF/VHF/UHF ALL MODE TRANSCEIVER

IC-7100

Easy Vehicle Mounting with Optional MBF-1

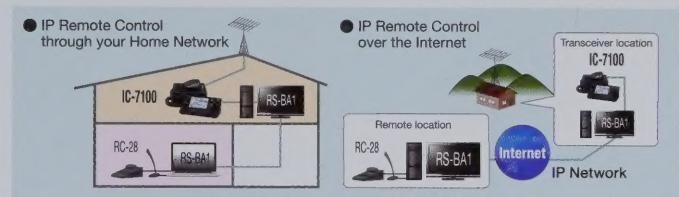
The combination of the optional MBF-1 suction cup mounting base and MBA-1 controller bracket provides easy tilt and swivel adjustments for mobile operation. The large suction cup can mount to dashboards or other flat surfaces and can be removed easily.

MBF-1



Optional RS-BA1 IP Remote Control Software

The optional RS-BA1 software allows you to operate the IC-7100 from a remote PC over the Internet or local home network.



Built-in RTTY Functions

The built-in RTTY decoder allows you to instantly read an RTTY message on the display. No external TNC or PC required for reading. The eight RTTY memories can memorize and transmit often used RTTY sentences. The RTTY memory is 70 character per memory channel.

Other Features

- CW full break-in, CW receive reverse, CW auto tuning
- Optional multi-function microphone, HM-151
- Band scope and SWR graphic display
- RF speech compressor controlled by the DSP
- Voice memory function
- Multi-function Meter
- 495 regular, 4 call, 6 scan edge and 900 DR mode repeater channels
- 4 channels TX voice memories
- ±0.5ppm frequency stability
- Auto reply function*
- Digital callsign squelch and digital code squelch*
- 12.5kHz IF output for DRM (Digital Radio Mondiale) receive

* D-STAR DV mode only



SPECIFICATIONS**GENERAL**

Frequency coverage*	(Unit: MHz)			
Receiver	0.030–199.999*	400.000–470.000*	400.000–470.000*	
	1.800–1.999	3.500–3.999	5.255–5.405*	7.000–7.300
Transmit	10.100–10.150	14.000–14.350	18.068–18.168	21.000–21.450
	24.890–24.990	28.000–29.700	50.000–54.000	144.000–148.000
	430.000–450.000			

*1 Showing USA version. Varies according to version.

*2 Some frequency bands are not guaranteed.

Mode	USB, LSB, CW, RTTY, AM, DV, FM, WFM (Rx only)
No of memory channels	495 regular, 4 call, 6 scan edges, 900 D-STAR repeater channels
Antenna connector	SO-239x2 (one each for HF/50MHz and 144/430/440MHz, 50Ω)
Operating Temp. range	-10°C to +60°C; +14°F to +140°F
Frequency stability	±0.5ppm (0°C to +50°C @ 430MHz)
Power supply requirement	13.8V DC ±15%
Current drain (at 13.8V DC)	TX (Max. power): 22A (HF/50MHz), 16A (144/440MHz) RX (Max. audio/standby): 1.2A/0.9A
Dimensions (WxHxD, projections not included)	Main unit 167×58×225 mm; 6.57×2.28×8.86 in Controller 165×64×78.5 mm; 6.5×2.52×3.09 in
Weight (approx.)	Main unit 2.3 kg; 5.1 lb Controller 0.5 kg; 1.1 lb

TRANSMITTER

Output power (at 13.8V DC)	HF/50MHz	144MHz	430/440MHz
SSB/CW/RTTY/FM/DV	2–100W	2–50W	2–35W
AM	1–30W	—	—

Modulation system SSB : Digital P.S.N. modulation, AM : Digital low power modulation

FM : Digital phase modulation, DV : GMSK digital phase modulation

Spurious emissions Less than -50dB (HF bands), Less than -63dB (50MHz)

Less than -60dB (144/430/440MHz)

Carrier suppression More than 50dB

Unwanted sideband More than 50dB

RECEIVER

Intermediate frequencies	SSB/CW/AM/FM/RTTY/DV	WFM	124.487MHz, 455kHz, 36kHz
			134.732MHz, 10.700MHz
Sensitivity	(HF: Preamp-1 ON, 50MHz: Preamp-2 ON, 144/430/440MHz: Preamp ON 0.5–1.8MHz)		
SSB/CW (BW=2.4kHz, 10dB S/N)	1.8–29.9MHz	50–54MHz	144/430/440MHz
AM (BW=6kHz, 10dB S/N)	—	0.15µV	0.12µV
FM (BW=15kHz, 12dB SINAD)	0.5µV (28–29.7MHz)	0.25µV	0.18µV
DV (1% BER)	1µV (28–29.7MHz)	0.63µV	0.35µV
WFM (12dB SINAD)	—	—	10µV (76–108MHz)

Selectivity

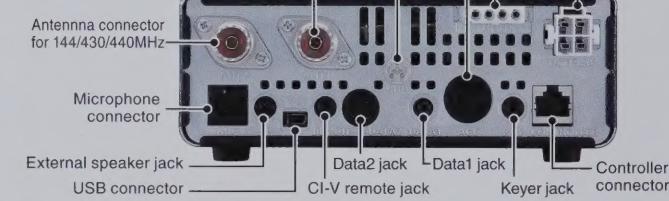
	More than	Less than
SSB (BW=2.4kHz, sharp)	2.4kHz/-6dB	3.4kHz/-40dB
CW (BW=500Hz, sharp)	500Hz/-6dB	700Hz/-40dB
RTTY (BW=500Hz)	500Hz/-6dB	800Hz/-40dB
AM (BW=6kHz)	6.0kHz/-6dB	10kHz/-40dB
FM (BW=15kHz)	12kHz/-6dB	22kHz/-40dB
DV (12.5kHz spacing)	-50dB	—

Spurious and image rejection ratio More than 65dB (HF/50MHz, More than 65dB (144/430/440MHz)

(except 1/2 IF through on 50MHz, IF through on 144MHz)

Audio output power More than 2.0W (10% distortion, 8Ω load, 13.8V DC)

All stated specifications are subject to change without notice or obligation.

**Rear Panel View
(Main unit)**

D-STAR (Digital Smart Technology for Amateur Radio) is a digital radio protocol developed by JARL (Japan Amateur Radio League).

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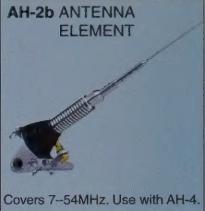
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URL : <http://www.icomuk.co.uk>

OPTIONS

Some options may not be available in some countries. Please ask your dealer for details.

**Supplied accessories:** (* May differ depending on version)

- Hand microphone, HM-198
- DC power cable
- CW keyer plug
- Spare fuses
- Separation cable, OPC-2253
- 13-pin plug ACC cable
- USB cable
- Ferrite bead*

Your local distributor/dealer: